L 18567-66 EVT(m)/EVP(j)/T WW/JW/JWD/RM

ACC NR: AP6002700

SOURCE CODE: UR/0062/65/000/012/2190/2193

AUTHORS: Zakharkin, L. I.; Kazantsev, A. V.

ORG: Institute for Hetercorganic Compounds, Academy of Sciences, SSSR (Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR)

TITLE: Investigation of the alkylation reaction of C-metallic borane derivatives

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 12, 1965, 2190-2193

TOPIC TAGS: borane, boron compound, organoboron compound, alkylation, lithium, sodium, boron

ABSTRACT: A detailed investigation of the alkylation of lithium and sodium borane derivatives by different alkyl halides was carried out. This study is an extension of work previously published by L. I. Zakharkin (Izv. AN SSSR, Ser. khim. 1965, 158). The effect of different solvents and mlkali metals on the alkylation reaction was studied on the system

UIX :

L 15567-66

ACC NR: AP6002700

and the reaction yields as a function of the solvent and the nature of alkali metal were dotermined. Melting points of the synthesized compounds are tabulated. It is concluded that the alkylation proceeds more smoothly in liquid ammonia than in ether-benzene solution. Orig. art. has: 3 tables and 3 equations.

SUB CODE: 07/ SUBM DATE: 02Apr65/ ORIG REF: 003/ OTH REF: 003

06265

9(2)

SOV/107-59-6-29/50

AUTHOR:

Kazantsev, B.

TITLE:

Automatic Traffic Lights

PERIODICAL:

Radio, 1959, Nr 6, pp 24-26 (USSR)

ABSTRACT:

The author describes the electronic automatic traffic light control device L-2. The principal circuit diagram is shown in Figure 2. The device consists of five time relays. Four of them are built with two 6N8S tubes and control the duration of the different traffic light phases. The contact units of all four RKN relays are connected in such a way that they work consecutively. Further, a 6P6S tube is used, but its function is not explained. MKU-48 direct current relays are used. A bridge rectifier with DGTs-25 germanium diodes supplies direct current. The device is built to function in connection with other traffic lights which are controlled

by the same type of equipment. It is built of widely

Card 1/2

06265 SOV/107-59-6-29/50

Automatic Traffic Lights

used parts produced by the Soviet industry. The unit is enclosed in a metal housing of 300 x 260 x 180 mm. In case of a failure, the entire unit may be replaced within 3 minutes. The connection between two or more automatic traffic light control devices is achieved by a telephone line, which may consist of two steel wires. If the connection of the different phases, red, yellow, green, is disturbed, they will continue their operation as individual controls. There are 2 circuit diagrams, 1 block diagram, 2 sketches.

Card 2/2

VELIK ANOV, N. (Chelyabinsk); ZEMTSOV, A.; KAZANTSEV, B. (Leningrad)

Electronic signal light switches. Padic no.4:50-51 Ap. 164.

(MIRA 17:9)

AID P - 3333

Subject

: USSR/Power Engineering

Card 1/1

Pub. 26 - 19/28

Authors

: Butyrin, Ya. N., Eng. and B. A. Kazantsev,

Senior Techn.

Title

: Tenon joining of waterwalls in the boiler furnace

Periodical

Elek. sta., 26 /8, 48-49, Ag 1955

Abstract

: The article describes the manner in which the welding of tenons in a 110t/hour, 42 atm boiler, operating on anthracite culm was made without cutting out the waterwalls. The operation is described in great detail with 3 diagrams.

Institution : None

Submitted

: No date

UR/CM3/65/CCO/CO: /0079/0086 SOURCE CODE: ACC NR. AF6013613 AUTHOR: Kazantsev, B. E. (Engineer) ORG: Leningrad folytechnic Institute im. M. 1. Kalinin (Leningradickly politekhnicheskiy institut) TITLE: Graphic method of calculating tidal-wave regulation with taking into account of the pipe effect SOURCE: Izvestiya vysshikh uchebnykh zavedenly. Energetika, no. 6, 1965, 79-86 TOPIC TAGS: ocean tide, hydroelectric power plant, turbine, pump, flow rate A basic requirement that must be met by the hydroelectric equipment of tidal power stations is its ability to operate both in turbine and pump regimes. In this connection, power generation at tidal power stations can be increased by utilizing the pump effect. The nature of this effect is as follows: during the period when the difference between the water levels of the station's basin and the sea is small, an additional amount of water is pumped from the sea into the basin so that it may be utilized in the subsequent turbine work in the basin in the presence of a much higher pressure. If the characteristics of the equipment of the tidal power station and electric transmission lines, as well as other data, are known, then the optimal combi-UDC: 627.160 Card 1/2

ACC NR: AP6013613

nation of the pump and turbine regimes can be calculated in alvance as a function of the tidal amplitude and the specific daily load graph. Since, however, exact calculations are not possible in the planning stage, the author describes an approximate graphic method for calculating the extent to which the tidal wave must be regulated on taking into account the pump effect, as based on the following assumptions: the flow rate of water through the station's equipment is constant regardless of the regime (turbine, pump, idling); the efficiency of pumps and turbines is constant; two adjacent tidal waves are of the same amplitude; on this basis it can be proceeded from the premise that two consecutive periods of operation of the tidal power station (emptying and filling of the basin) are symmetric with respect to the wave height. The corresponding curves are plotted and formulas derived. Orig. art. has:

2 figures, 2 formulas, and 1 table. [JPRS]

SUB CODE: 10 / SUBM DATE: 30Jul64 / ORIG REF: 002

Card 2/2 mab

ACC NR: AR6035268

through the turbines remains constant and is the same in both regimes; 5) the idle discharge is constant; 6) similar amplitude for adjacent tidal waves; 7) the two duodirectional periods of operation of the tidal hydroelectric power plant are linked symmetrically according to wave height. Comparative calculations made of the author's method and that of Bernstein have shown both methods to give roughly the same results. B. Kagan. [Translation of abstract] [GC]

SUB CODE: 10, 20/

Card 2/2

KAZANTSEV, B.E., inzh.

Graphical method for calculating tidal wave control with consideration of the pumping effect, Izv. vys. ucheb. zav.; energ. 8 no.6:79-86 Je 165. (MIRA 18:7)

1. Leningradskiy politekhnicheskiy institut imeni Kalinina. Predstavlena kafedroy ispol'zovaniya vodnoy energii.

KAZANTSEV, B. I. Cand Tech Sci -- (diss) "Regression of the centers of hidden photographic pictures." [Mos., 1958. 7 pp (Min of Culture USSR. All-Union Sci Res Cinema-Photo Inst NIKFI), 150 copies (KL, 49-59, 140)

42-

S. O. Y. 18

Kazantsev, B. L.

771.535 62 7593. Regression of the latent-image contres. B. I. KAZANISEV AND P. V. MEIKLYAN. Zh. ek sper. Teor. 172., 28, No. 1, 70-6 (1955) In Russian.

Photographic plates were subjected to a 100-sec exposure, either at a stretch or in two instalments with posure, either at a stretch or in two instalments with an intervening interval of darkness; after development, the blackening was determined sensitometrically. It was found that the obtained results of the regression (fading) of both the latent-image centres (in thick-emulsion plates) and subcentres (in ordinary plates) do not tally with either of the two theories so far suggested, i.e. the oxidation theory and that involving the recombination of Ag atoms with Br. It was also found that Melklyat's [Abstr. 8739 (1981)] equation $\Delta n/\Delta n_0 \approx 1/(1+n)^2$ for the decay of photo-conductivity in Ag halide crystals, when transformed into $N/N_c \approx 1/(1+N_ck)^2$, where N and N_c are the numbers of Ag atoms in a centre at the end and beginning of the time interval τ , respectively, and k and z are constants (varying from -0.2 to -0.5 in either equation), represents very accurately the sensitementic curves obtained.

temetric curves obtained.

Mileton State Pelagog. Int

KAZantses B.1.

USSR/Optics - Photography

K-11

Abs Jour

: Referat Zhur - Fizika, No 5, 1957, 13223

Author

Kazantsev, B.I.

Inst Title

: Connection Between the Regression of the Centers of the

Latent Photographic Image and the Deviations from the Law

of Replaceability.

Orig Pub

: Zh. nauch. i prokl. fotogr- i kinematogr., 1956, 1, No 3,

164-169

Abstract

: Several commercial grades of photographic materials were used to study the effective temperature of the NaNO2 (I), borax (II), potassium bromide (III), vacuum, and vapors of water on the regression (R) of the latent image and on the deviations from the law of interchangeability at low illumination intensities. Reducing the temperature and treating the plates with solutions of I and II slows down the regression and reduces the deviation from the

Card 1/3

molotor State Pedagogical Inst.

USSR/Optics - Photography

K-11

Abs Jour

: Ref Zhur - Fizika, No 5, 1957, 13223

interchangeability, while a solution of III accelerates the regression rapidly and increases the deviation from the interchangeability. Slowing the photographic material in vacuum slows down the regression, and exposure in vacuum reduces the deviation from the interchangeability. Thus, all the above factors effect both R and the deviation from interchangeability in a similar manner. An exception is only water vapors, which accelerate the regression and reduce the deviation from the interchangeability. Water vapors slow down the regression at the early stages of formation of the latent image and accelerate it at later stages. It is concluded that there exists a parallellism between the regression of the center of the latent image in the case when the action of the light is interrupted at the initial stage of their formation, and the deviations from the interchangeability upon prolonged illumination durations. In the author's opinion, the result

Card 2/3

USSR/Optics - Photography

K-11

Abs Jour

: Ref Zhur - Fizika, No 5, 1957, 13223

obtained is due to the similarity between the mechanisms of the two phenomena, based on the thermal diffusion of the centers of the latent image.

Card 3/3

AUTHORS:

Kazantsev, B.I., Meyklyar, P.V.

SOV/77-3-6-1/15

TITLE:

The Kinetics of the Regression of the Centers of the Latent Photographic Image (Kinetika regressii tsentrov skrytogo fotograficheskogo izobrazheniva)

PERIODICAL:

Zhurnal nauchnoy i prikladnoy fotografii i kinematografii, 1958, Vol 3, Nr 6, pp 401-406 (USSR)

ABSTRACT:

The authors describe investigations into the kinetics of the regression of the centers of the latent image. These experiments are considered important to a better understanding of the formation of the latent image. The photographic layer underwent a determined exposition. An incandescent lamp that obtained its energy through a ferroresonant stabilizer was used as the source of light. The duration of illumination was 100 seconds. A sensitometric wedge-shaped transparent glass plate with a constant 0.15 for white light and C.17 for blue light was fixed before the layer. Chibisov developer was used. An evenly developing temperature, with up to 0.5° accuracy, was provided by thermostats. The obtained sensitograms were measured out on a photoelectric densitometer. From these sensitograms characteristic curves (graphs 1 to 11)

Card 1/3

were developed. Uniform development was provided for all

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R00072132001

The Kinetics of the Regression of the Centers of the Latent Photographic

frames of one pack until the image became visible. Regression of the image was brought about by keeping the frames under normal conditions, conditions with and without oxygen in a moist medium, and conditions of irradiation with red light. The processes were compared. It is concluded that each process starts with a liberation of electrons: photoelectric in the case of irradiation with red light, thermic in the case of regression. This is followed by a process of thermic elimination of the silver ions. The presence of oxygen influences this process only with respect to its influence on the relaxation of the photoelectric processes. Regression speed in a moist medium with reduced oxygen content differs slightly from that in a medium with normal oxygen contents (Graph 12).

Card 2/3

KAZAHTSEV, 9. N.

"Litia Aqueous Net (Hydrodictyon reticulatum Lagerheim) as a Plant which is Harmfu to Gambusia Za germ of fish effective in destroying Mosquito larvae,", Med. Faraz. i Paraz. Bolez., Vol. 17, No. 4, pp 370-73, 1948.

KAZANTSEV, B. N.

Kazantaev, B. N. "Parasites on 'gambuziya rachka' of the genus 'Lerney' in the natural reservoirs of Central Asia", Soobshch. Tadzh. filiala Akad. nauk SSSR, Issue 14, 1949,

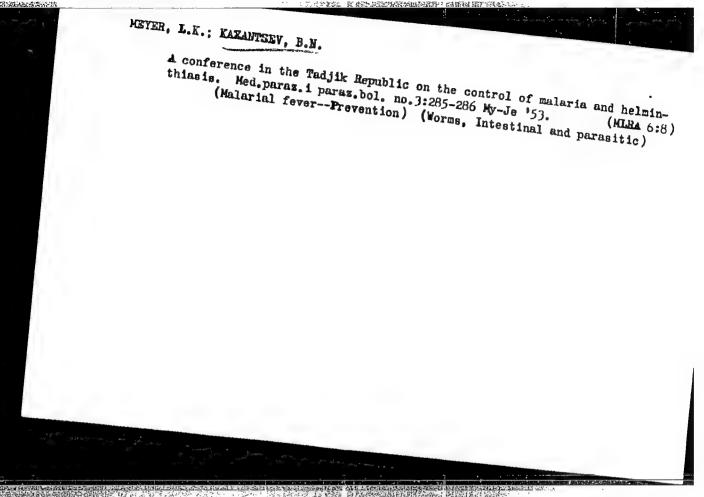
SO: U-4630, 16 Sept. 53, (Letopis 'Zhurnal 'nykh Statey, No. 23, 1949).

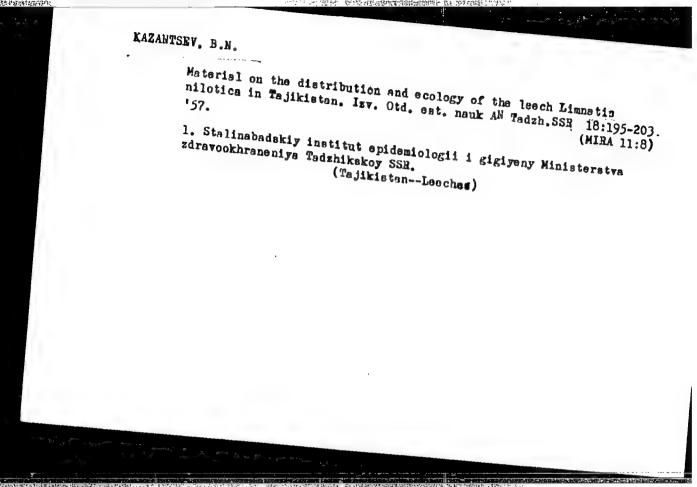
KAZANTSEV, B. N.

36641. Materialy Po Faune Krovososushchikh Komarov Yavanskogo Rayone. Sochshch. Tedzh. Filiala Akad. Nauk SSSR, Vyp. 18, 1949, c. 19-21

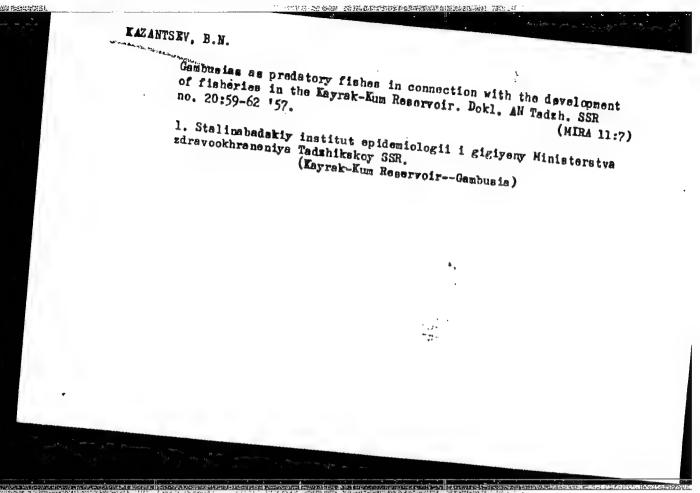
SO: Letopis' Zhurnal'nykh Statey, Vol. 50, Moskva, 1949

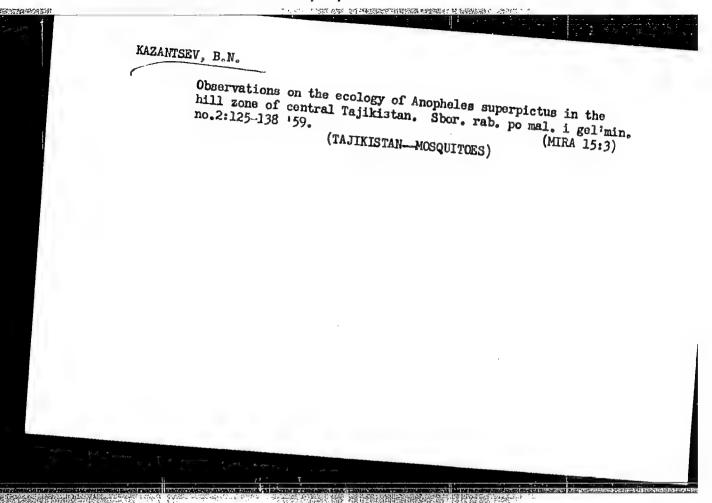
CIA-RDP86-00513R000721320013-2" APPROVED FOR RELEASE: 06/13/2000





APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320013-2"





APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320013-2"

Anophelogenic significance of the shallow waters in the Kara Kum Reservoir. Sbor. rab. po mal. i gel'min. no.2:151-161

(KARA KUM RESERVOIR-MOSQUITOES)



Data on the acclimatization of gambusia in the Tajik S.S.R. Sbor. rab. po mal. i gel'min. no.2:175-185 '59. (MIRA 15:3)

(TAJIKISTAN MOSQUITOES EXTERMINATION)

KAZANTSEV, B.N.; MAMKEYEVA, Kh.I. Prophylactic measures against the appearance of outbreaks of tick-borne spirochetosis in new building projects. Zdrav. Tadzh.

(MIRA 15:1)

HANGE BUTTON

(TICKS AS CARRIERS OF DISEASE)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320013-2"



HAZANTSEV, B. P. (reviewer)

"Review of V. A. Uryvayev's Book <u>Eksperimental'nyve gidrologicheskive isslodovaniya</u> na Valdaye," Kateorology i gidrologiya, No 1, 1954, pp 53-55

Review of the 232-page Eksperimental nyve gidrologicheskive issledovaniya na Valdaye (Experimental Hydrological Developments in Valday), Hydrometeorological Press (Cidrometeorological), Leningrad, 1953. (RZhGeol, No 5, 1954)

SO: Sum. No. 568, 6 Jul 55

KOREPANOV, A.; BERDNIKOV, V.V.; KADOSHNIKOV, B.A.; KAZANTSEV, D.P., red.; VORONTSOVA, Z.Z., tekhn. red.

[Our experience in fattening young cattle] Nash opyt nagula mododnyaka krupnogo rogatogo skota. Izhevsk, Udmurtskoe knizhnoe izdvo, 1960. 16 p. (MIRA 14:12)

1. Zaveduyushchiy Molochno-tovarnoy fermy kolkhoza "Rassvet" Igribskogo rayona (for Korepanov). (Cattle-Fepding and feeds)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320013-2"

Colly W. T. a., incompatible of the ly some of the factor of the drive of the ly some of the late of the standard of the late of the late

1. Proyek traya kontors Copposition to the program of the

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320013-2

***Care of the regression of the venture of the latent photographic characteristics of t

TAGEYEVA, S.V.; KAZANTSEV, E.N.

Characteristics of cytoplasmic and chloplastic streaming in the leaf cells of Elodea canadensis. Izv.AN SSSR.Ser.biol. no.6:885-895 N-D '62. (MIRA 16:1)

1. Institute of Biological Physics, Academy of Sciences of U.S.S.R. (PLANT CELLS AND TISSUES) (WATERWEFD)

PAGEYEVA, S.V.; KAZANTSEV, E.N.; TAIRBEKOV, M.G.; KORSHUNOVA, V.S.

Elements of the mechanism of motility of cytoplasmic structures in plant cells. Fiziol. rast. 12 no.5:854-865 S-0 165.

1. Institut biofiziki AN SSSR, Moskva.

(MIRA 19:1)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320013-2"

TAIRBEKOV, M.G.; KAZANTSEV, E.N.; TAGEYEVA, S.V.

Relation between the synthesis and decomposition of ATP and the intensity of cytoplasm motion in a plant cell. Biokhimiia 30 no.6:1285-1291 N-D *65.

1. Gruppa biofiziki rastitel*noy kletki Instituta biologicheskoy fiziki AN SSSR, Moskva. Submitted March 15, 1965.

TAGEYEVA, S.V.; KAZANTSEV, E.N.

Movement of cytoplasm and chloroplasts in the cells of detached leaves of Elodea canadensis. Fiziol. rast. 9 no.5:542-549 162. (MIHA 15:10)

1. Institut of Biological Physics, U.S.S.R. Academy of Sciences,

(Chromatophores)

(Protoplasm)

KAZANTSEV, E.N.; APANAS'YEV, L.F.

Use of electromechanical apparatus for studies of cytoplasmic mobility. TSitologiia 7 no.2:270-272 Mr-Ap '65. (MIRA 18:7)

1. Laboratoriya fotobiologii Instituta biologicheskoy fiziki AN SSSR, Moakva.

KAZANTSEV, E. N.; TAGEYEVA, S. V.; TAIRBEKOV, M. G.

"The mechanism of movement of cytoplasmic structures in plant cells."
report submitted for 10th Intl Botanical Cong, Edinburgh, Scotland, 3-12 Aug 64.

KAJANTSEV, E.N.

Variation of the velocity of movement of cytoplasm and enleroplasts in the Elodea cells throughout the year. Finiel. rast. 11 no.4:587-(MIRA 17:11)

1. Institute of Biological Physics, U.S.S.S. Academy of Sciences, Moscow.

KAZANTSEV, F.; PELEVINA, N., konduktor; BAYKOV, R., slesar' depo

If the party says it must be done, Communist Youth League answers, aye! Zhil.-kom. khoz. 12 no.4:4-5 Ap '62. (MIRA 15:7)

1. Sekretar! partiynogo byuro Upravleniya noginskogo tramvaya (for Kazantsev). 2. Chlen komiteta Vsesoyuznogo Leninskogo kommunisticheskogo soyuza molodezhi (for Baykov).

(Communist Youth League)

(Noginsk-Streetcars)

RATATION, 2. E.

IAZANTSEV, F. N. "The reaction of cattle to minor gustatory irritations," Doklady (Mosk. s.-kh. akad. in. Timiryazeva), Issue 8, 1949, p. 125-27

SO: U-5240, 17, Pec. 53, (Letopis 'Fhurnal States, No. 25, 1949).

KAZANTSEV, P. M.

Fattening swine for meat and lard Moskva, Gos. izd-vo selkhoz lit-ry, 1955. Lup.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320013-2"

KAZANTSEV F.M.

USSR/Form Aminols. Small Hornod Cettle

Q-3

Abs Jour : Rof Zhur - Biol., No 11, 1958, No 49996

Author : Krzentsov F !! Inst

: Hoscow herdany of Agriculture imeni K.A. Timiryczov Titlo

: Changes of Sono Clinical and Physiological Indicators in Cows

Caused by Veriogeted Fooding Schodules.

Orig Pub : Dokl. Mosk. c.-kh. sked. in. K.A. Timiryezove, 1957, vyp.

Abstract: The work schedule in the cow bern, characteristics and techniques of foodings produce - physiological stereotype of the well-being and behavior of the cows which may be disclosed by the complex of clinical and physiological indicators. The transition from the two-cycle feeding and milking schedule to a four-cycle one has been sharply reflected in the indices of nutritional equilibrium. According to the author's findingr, the milk yield in one of the cows decreased by 14 percent, in another cow by 8 percent, and in a third cow by 7 percent because of such transition. The cows' becoming accustomed

Card 1 1/2

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320013-2"

KAZAMESEV, F.M., kand.sel'skokhozyaystvennykh nauk, dotsent

Scientific and pedagogic activities of academician. Izv.TSEhA no.2:119-122 59. (MIRA 12:7)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320013-2"

POLYAKOV, I.I., prof., doktor biol. nauk; BARANOVA, K.V., dots., kand sel'khoz. nauk; KAZANTSEV, F.M., dots., kand. sel'khoz. nauk; ORLOV, A.V., dots., kand. sel'khoz. nauk; BABKINA, N.G., red.

[Practical course in animal husbandry] Praktikum po zhivotnovodstvu. Moskva, Kolos, 1965. 222 p. (MIRA 18:7)

GOLOGORSKIY, V.A.; KAZANTSEV, F.N.

Problem of causes and treatment of hypotension during anesthesia and surgery. Khirurgiia 37 no.4252-62 161. (MIRA 14:4)

l. Iz kafedry obshchey khirurgii (zav. - prof. G.P. Zaytsev) pediatricheskogo fakul'teta II Moskovskogo gosudarstvennogo meditsinskogo instituta imeni N.I. Pirogova. (ANESTHESIA) (SURGERY, OPERATIVE) (HYPOTENSION)

KAZANTSEV, F.N. (Moskva)

Some data on changes in the sympathoadrenal system in vascular diseases. Klin.med. 39 no.1:64-71 Ja '61. (MIRA 14:1)

l. Iz kafedry obshchey khirurgii pediatricheskogo fakul'teta (zav. - prof. G.P. Zaytsev) i ISentral'noy nauchno-issledovatel'-skoy laboratorii (zav. - kand.med.nauk E.M. Kogan) II Moskov-skogo meditsinskogo instituta imeni N.I. Pirogova i 4-y Gorodskoy klinicheskoy bol'nitsy.

(ADRENALINE) (CARDIOVASCULAR SYSTEM—DISEASES)

ZAYTSEV, G.P., prof.; KAZANTSEV, F.N.

USSE

Sympathico-adrenal system in operations under different types of anosthesia. Nov.khir.arkh. no.1:34-46 '62. (MIRA 15:8)

1. Kafedra obshchey khirurgii (zav. - prof. G.P. Zaytsev) pediatricheskogo fakul'teta i TSentral'naya nauchmo-issledovatel'skay aptechnaya laboratoriya. (NERVOUS SYSTEM, SYMPATHETIC) (ADRENAL GLANDS) (ANESTHESIA)

STARTSEV, I.V.; KAZANTSEV, F.N.

Morphological changes in the animals and functional disorders in the sympathoadrenal system following gastric resection.

Sov. med. 25 no.2:63-70 F 162. (MIRA 15:3)

1. Iz kliniki obshchey khirurgii (zav. - zasluzhennyy deyatel' nauki prof. G.P. Zaytev) pediatricheskogo fakul'teta II Moskov-skogo meditsinskogo instituta imeni N.I. Pirogova.

(STOMACH—SURGERY) (ADRENAL GLANDS—DISEASES)

KAZANTSEV, F. N.

Clinical use of noradrenaline in anesthesiology. Vest. khir. no.2: 116-120 62. (MIRA 15:2)

1. Iz kliniki obshchey khirurgii (zav. - prof. G. P. Zaytsev) pediatricheskogo fakuliteta 2-go Moskovskogo meditsinskogo instituta im. N. I. Pirogova.

(ARTERENOL) (AMESTHESIOLOGY)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320013-2"

KAZANTSEV, F.N. (Kazan')

Problems of anesthesiology at the Second All-Union Conference of Surgeons, Traumatologists and Anesthesiologists; December 20-25, 1961 in Baku. Kaz.med.zhur. no.3:94-95 My-Je '62. (MIRA 15:9) (ANESTHESIOLOGY-CONGRESSES)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320013-2"

STARTSEV, I.V.; SHALEVICH, M.A.; KAZANTSEV, F.N.

KETTI TEKNI

Paraganglioma. Vest.khir. no.6:98-100 162.

(MIRA 15:11)

1. Iz kliniki obshchey khirurgii (dir. - prof. G.P. Zaytsev) 2-go Moskovskogo meditsinskogo instituta i patologoanatomicheskogo otdeleniya (zav. - prof. Ya.L. Rapoport) 4-y gorodskoy klinicheskoy bol'nitsy.

(CHRCMAFFIN SYSTEM_TUMORS)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320013-2"

KAZANTSEV, F.R.

Use of noradrenaline in massive internal hemorrhages. Akush. i gin. no.2247-52'63. (MIRA 16:10)

1. Iz kliniki obshchey khirurgii (zav. - zasluzhennyy deyatel' mauki - prof G.P. Zaytsev) i TSentral'noy nauchmoissledovatel'skoy laboratorii (zav. - dotsent E.M.Kogan) pediatricheskogo fakul'teta II Moskovskogo meditsinskogo instituta imeni N.I.Pirogova. (NORADRENALINE) (HEMORRHAGE)

KAZANTSEV, F.N.; KHOVANSKAYA, M.G.

Some indicators of changes in the sympathetic-adrenal system during experimental surgery under intratracheal ether-oxygen and potentialized anesthesia. Eksper. khir. i anest. 8 no.3:89-92 My-Je '63 (MIRA 17:1)

l. Iz Moskovskoy kliniki obshchey khirurgii (zav. - prof. G.P. Zaytsev) pediatricheskogo fakul'teta i TSentral'noy nauchno-issledovatel'skoy laboratorii (zav. - dotsent E.M.Kogan) II Moskovskogo meditsinskogo instituta.

KAZALTSAV, F.I.

Coxinged in the sympathi mearsual system recta, the use of neuroplogics. Sov. med. 27 no. 11:02-07 L 403 (at a 18:1)

1. Is kafedry obshchey khirurgil (m.v. - rambad, m yy depatel nauki prof. G.i. Zaytsev) pediatrioicake, o filmiteta i TSen-tral ney nauchno -issledovatel shoy laboraterii (mav. - Fra.d. tred. nauk E.H. Kogan) II Koskewskogo ned rambacco instituta inchi Pirogova.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320013-2"

KAZANTSEV, F.N., kand.med.nauk; NAKHROVA, Z.V.

External respiration in scoliosis. Ortop., travm. i protez. 25 no.5133-36 My *64. (MIRA 18:4)

1. Iz anesteziologicheskogo otdeleniya (rukovoditel! - F.N. Kazantsev) Kazantsev) Kazantsevo instituta travmatologi i ortopedii (dir. - starshiy nauchnyy sotrudnik U.Ya.Regdanovich). Adres avtorov: Kazan! 15, ul. M.Gor!kogo, d.3, Institut travmatologii i ortopedii.

KATANTSHV, F.R.

Content of catechol amines in the blood during inhalation aneatheria. Vest. khir. 92 no.6:64-68 Je 164. (MIRA 18:5)

1. Iz kliniki obshchey khirurgii (zav. - prof. G.P. Taytsev) pediatricheskogo fakul'teta i tsentral'noy nauchno-issledovatel'skoy laboratorii (zav. - dotsent E.M. Kogan) 2-go Moskovskogo meditsinskogo instituta imeni Pirogova (rektor - dotsent M.G. Sirotkina). Adres avtora: Moskva, Pavlovskaya ulitsa, 25, 4-ya gorodskaya bol'nitsa, klinika obshchey khirurgii pediatricheskogo fakul'teta.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320013-2"

KAZANTSEV, F.N.

Change in the concentration of catechol amines in the venous blood of patients following surgery under spinal anesthesia. Sov.med. 28 no.12:101-106 D *65.

(MIRA 18:12)

1. Klinika obshchey khirurgii pediatricheskogo fakul'teta
(zav. - rrc., G.P.Zaytsev) i TSentral'naya nauchno-issledovatel'slaja laboratoriya (zav. - dotsent E.M.Kogan) II

Moskovskogo meditsinskogo instituta imeni N.I.Piregova i
Kazanskiy nauchno-issledovatel'skiy institut travmatologii
i ortopedii (direktor - starshiy nauchnyy sotrudnik U.Ya.

Bogdanovich).

KAZANTSEV, F.S., insh.

Circuits for the switching on of fluorescent lamps in illuminating devices. Swetotekhnika 5 no.11:16-20 N 159.

(MIRA 13:2)

1. Chelyabinskiy institut mekhanizatsii i elektrifikatsii sel'skogo khozyaystva.
(Fluorescent lighting)

KAZANTSEV, F.S., inch.

Questions on the operation of a fluorescent lamp with an active ballast. Svetotekhnika 6 no.2:15-19 F '60. (MIRA 13:5)

1. Chelyabinskiy institut mekhanisatsii i elektrifikatsii sel'skogo khosyaystva.
(Fluorescent lamps)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320013-2"

KAZANTSEV. F.S., inzh.

Operation of fluorescent lamps with reduced ballast resistors. Svetotekhnika 6 no. 12:3-7 D '60. (HIRA 14:1)

1. Chelyabinskiy institut mekhanizatsii i elektrifikatsii sel'-akogo khozyaystva.

(Fluorescent lamsp)

KAZANTSEV, F. S.

Cand Tech Sci - (diss) "Use of combination illumination in raising of vegetable seedlings." Moscow, 1961. 21 pp with diagrams; (Moscow Order of Lenin Agricultural Academy imeni K. I. Timiryazev); 180 copies; price not given; list of author's works on p 21 (10 entries); (KL, 7-61 sup, 237)

ACC NR. AR 6028420

SOURCE CODE: UR/0196/66/000/005/V017/V017

AUTHOR: Kazantsev, F. S.; Golov, Yu. F.

TITLE: Operation of high-pressure gas-discharge lamps in circuits containing ballast resistors

SOURCE: Ref. zh. Elektrotekhnika i energetika, Abs. 5V89

REF SOURCE: Uch. zap. Mordovsk. un-t, vyp. 30, 1965, 46-56

TOPIC TAGS: high pressure, lamp, gas discharge, lamp, electric lamp, resister

ABSTRACT: Operating conditions of a PRK-2 lamp working with a resistive ballast (a PZh-110 x 500 incandescent lamp or a wire rheostat) and with an inductive ballast were experimentally investigated at a supply-voltage varying within 180--240 v. These conclusions are reported: (1) The gas-discharge lamp and its circuit parameters substantially depend on the voltage waveshape available; with a trapezoid shape, the the lamp and the circuit (p. f. = 0.88; restarting voltage is reduced by 20%; the ballast); this voltage waveshape cours when the lamp is connected to a 3-wire system a small resistive ballast causing a 15--20% power loss is possible; (3) The ballast coefficient. Six figures. Four tables. Bibliography of 3 titles. I. Tikhomirov

Card 1/1 SUB CODE: 09

UDC: 621.327.534.2.032.4

ARSYUTKIN, N.V.; DANILENKO, S.P., Prinimali uchastiye; CHERNIY, B.P.; KAZANTSEV, G.I.; KARASEV, N.N.; VOROB'YEV, G.P.

Automatic weighing of Dinas brick material. Ogneupory 25 no.11:497-499 '60. (MIRA 13:12)

1. Pervoural'skiy dinasovyy zavod.
(Firebrick) (Weighing machines)

S/1E2/62/000/010/004/004 D040/D113

AUTHORS:

Matsagora, N.T., and Kazantsev, G.I.

TITLE:

Large bottoms stamped in a floating-punch die

PERIODICAL: Kuznechno-shtampovochnoye proizvodstvo, no. 10, 1962, 44

TEXT: The described die set designed by the authors permits starping spherical steel ladl: bottoms from single solid steel blanks (5300 mm in diam and 42 mm thick) in a single stroke of a 15,000 ton hydraulic press. Using this set, the sticking of ready starpings to the punch, as used to happen in stamping bottoms from billets welded together from 6 stamped edge sections and a spherical center punch consists of a 200 mm high cylindrical portion with a floating ring. The bottom die half moves up and forms in sequence the spherical portion, the radius and then the cylindrical edge of the bottom. On moving upwards, the bottom die half presses against the floating ring and carries the latter upwards with it. At this moment, the ready stamping drops on the bottom plate of the press. The die figures.

Card 1/1

Communication of the Property of the Property

MATSECORA, N.T., KAZANTSEV, G.I.

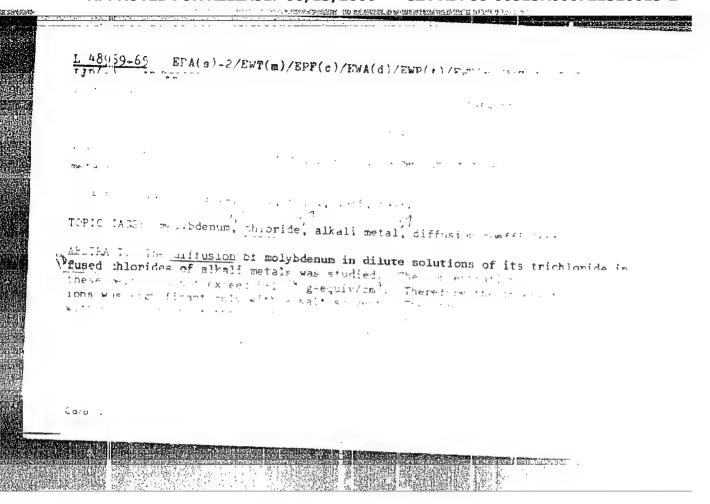
Stamping large-size end plates in dies with a floating punch.

Kuz.-shtam.proizv. 4 no.10:44 0 '62. (MIRA 15:12)

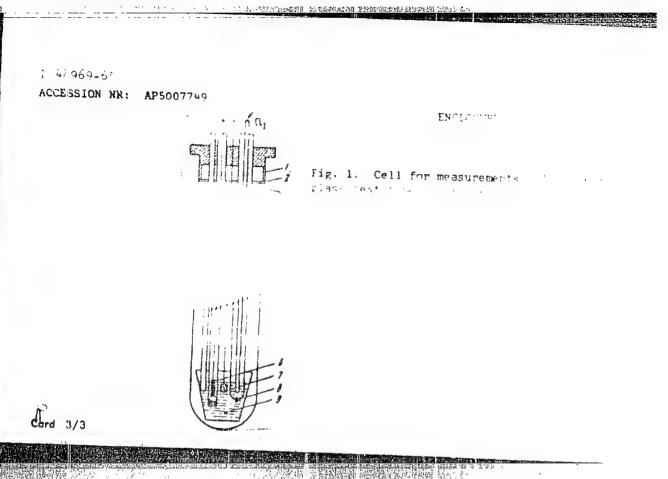
(Sheet-metal work)

SERGEYEV, M.P., doktor tekhn. nauk; KAZANTSEV, G.M., inzh.; YAROVSKIY, F.V., inzh.; YAGODOV, O.P., inzh.; YARKIN, A.A., inzh.

Investigating the operating tension of the carrying system of the S-1000GP tractor with the D-493 bulldozer. Stroi. i dor. mash. 10 no.9:18-20 S '65. (MIRA 18:10)



| • | | |
|--|--|--------------------------------------|
| | | |
| | | |
| L 48969-65 | | |
| ACCESSION NR. APSOCIATIO | | |
| 27 | .1 | ** |
| of 1: thium, potassium, and c | esium and also europe | |
| of 1: thium, potassium, and cefficient of trivalent molyb | denum was calculated upper | C1-KC1. The diffusion co- |
| · | | B The education |
| | $D = 1.37 \cdot 10^{-6} \left(\frac{MI}{320S} \right)^2 1 \text{ cm}^2$ | lssa |
| WHELE O IS The concentration | | |
| I is the strength of current | in amneros C in A | M is the molecular weight |
| the ingite factors in | | |
| 化二甲基甲基基磺胺酚酚 化氯苯酚 医皮肤病 化二氯甲基 | | • • |
| of the activation energy are cation madi of the salt activ | ting an analytic and an | രിക്കുന്നു. അവിത്യുട്ടും വരുന്നു |
| cation radii of the sait solv | remain and the second | VETER DESCRIPTION LES COMMUNICATIONS |
| uts titrust inminight to | he modylogical a me tree | • |
| lattice of the fusion to annot | har his are a | |
| | | |
| ASSOCIATION: Ural'skiy polit | ekhnicheskiv institut imen | ∮ Q − w − x z ω |
| Time active and a little and | | |
| SUBMITTED: 15Sep64 | | |
| 20 Je , 04 | ENCL: 01 | *** |
| N FL 1 SOV 013 | O/M IPP B | |
| | OTHER: 003 | |
| Card 2/3 | | |
| | and the second s | - |
| the time at the transfer of the second of th | • | |



MICHEOV, I.F.; RASPOPIN, S.P.; KAZANTSEV, G.N.; IDEEDLY, V.A.

Equipment for the automatic measurement of electrode polarization during the electrolysis of fused halides. Izv. vys. ucheb. zav.; tsvet. met. 7 no.6:136-139 164. (MIRA 18:3)

1. Ural'skiy politekhnicheskiy institut.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320013-2"

MASHANSKIY, F.I.; KAZANTSEVA, G.S.

Method based upon biological principles for the transplantation of nerve trunks in extensive defects of them. Vop.psikh.i nevr. nevr. no.7:447-451 '61. (MIRA 15:8)

ASTAP'YEV, K.V.; KAZAHTSEV, G.V.; TSIBUL'SKIY, K.I.; SHCHERBOV, D.P.; SHMANENKOV, I.V., redaktor; SERGEYEVA, N.A.; BORISOV, A.S., tekhnicheskiy redaktor

[Team and continuous work methods in chemical laboratories]
Brigadno-potochnyi metod raboty v khimicheskikh laboratoriiakh.
Trudy lab.geol.upr. no.2:3-47 *52;
(Chemical laboratories) (MLRA 7:11)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320013-2"

SHAYLIKOV, A.S.; KAZANTSEV, G.V.; PROSKURIN, N.V.; RUSANOV, A.K., redaktor; STEPANOVA, L.S., redaktor; POPOV, N.D., tekhnicheskiy redaktor.

Land to the total

[Work practices in the spectrum analysis laboratory of the Geological Administration] Opyt raboty spektral'noi laboratorii geologicheskogo upravlenii.Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geologii i okhrane nedr, 1954. 1954. 26 p. (Trudy laboratorii geologicheskikh upravlenii, trestov, ekspeditsii i partii, no.5) (MLRA 10:4) (Spectrum analysis) (Chemical laboratories)

DRYAGINA, I.V.; KAZARINOV, G.Ye.

Effect of ionizing radiations on the tubers and seeds of gladioli. Nauch. dokl. vys. shkoly; biol. nauki no.1:91-94 165.

1. Rekomendovana kafedroy genetiki i selektsii Moskovskogo gosudarst-

AHNINSKIY, L.; LIKHAREY, B.; SOLODAR', TS.; KAZANTSEV, I., red.; ZHDANOVA, G., tekhn.red.

[Altai reporting; "Literaturnaia gazeta" in the virgin land,
August-September, 1959] Altaiskii reportazh; "Literaturnaia
gazeta" na tseline, avgust-sentiabr' 1959 g. Barnaul,
Altaiskoe knizhnoe izd-vo, 1960. 197 p. (MIRA 14:4)

(Altai Territory--Description and travel)

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320013-2

KHUDYAKOV, Anatoliy Yakovlevich; KAZANTSEV, I., red.; ZHDANOVA, G., tekhm.

[Work and wages in Soviet trade] Trud i zarabotnaia plata v sovetskoi torgovle. Barnaul, Altaiskoe knizhnoeizd-vo, 1960. 37 p.

(Wages-Retail trade)

NEYMARK, I.I., prof., red.; KAZANTSEV, I., red.; ZHDANOVA, G., tekhn. red.

[Problems in thoracic and abdominal surgery; collection of works of the Altai Territory Surgical Society] Voprosy grudnoi i briushnoi khirurgii; sbornik rabot Altaiskogo kraevogo nauchnogo khirurgicheskogo obshchestva. Pod red. I.I.Neimarka. Barnaul, Altaiskoe knizhnoe izd-vo, (MIRA 14:12)

1. Altayskiy kray. Otdel zdravookhraneniya. (CHEST-SURGERY) (ABDOMEN-SURGERY)

KAZANTSEV, I., gvardii podpolkovnik, voyennyy lotchik pervogo klassa

landing on another airport. Av. i kosm. 46 no.12:69-70
D *63. (MIRA 17:1)

TYUKAHOV, Konstantin Ivanovich; KAZANTSEV, I., red.; ZHDANOVA, C., tekhn.red.

[Retail trade] Bosnichnaia torgovlia. Barnaul, Altaiskos knishnos isd-vo, 1960. 31 p. (MIRA 14:12) (Altai Territory-Retail trade)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320013-2"

SAYCHENKO, D.K.; KAZANTSEV, I., red.; ZHDANOVA, G., tekhn.red.

[Wholesale trade in the U.S.S.R.] Optovaia torgovlia
v SSSR. Barnaul, Altaiskoe knizhnoe izd-vo, 1960. 32 p.

(Wholesale trade)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320013-2"

KAZANTSEV, I.A.; HANSUROV, G.Yu.

Working conditions and morbidity among railway engine craws. Gig. i san. no.12:42-43 D 154. (MERA 8:2)

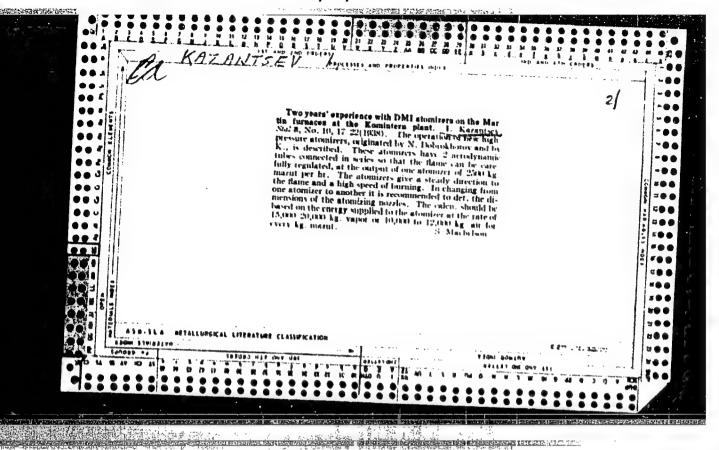
1. Iz laboratorii gigiyeny truda i promyshlennoy sanitarii dorozhnoy sanitarno-spidemiologicheskoy stantsii Kazanskoy sheleznoy dorogi.

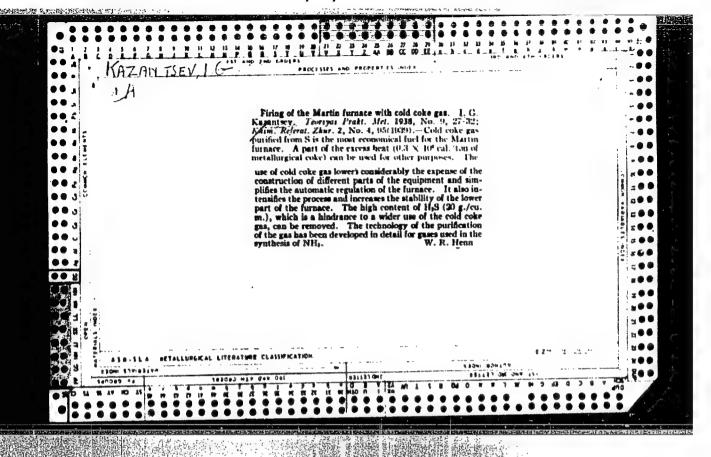
(INDUSTRIAL HYGIENE

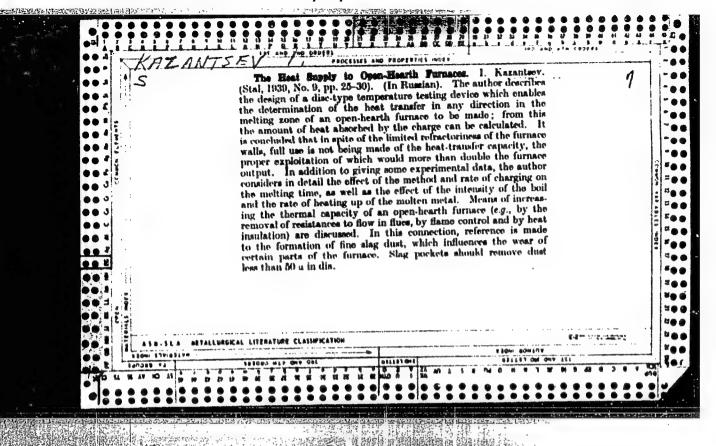
railway engineers working cond. & morbidity in Russia) (OCCUPATIONAL DISEASES

railway engineers in Russia, relation to working cond.)

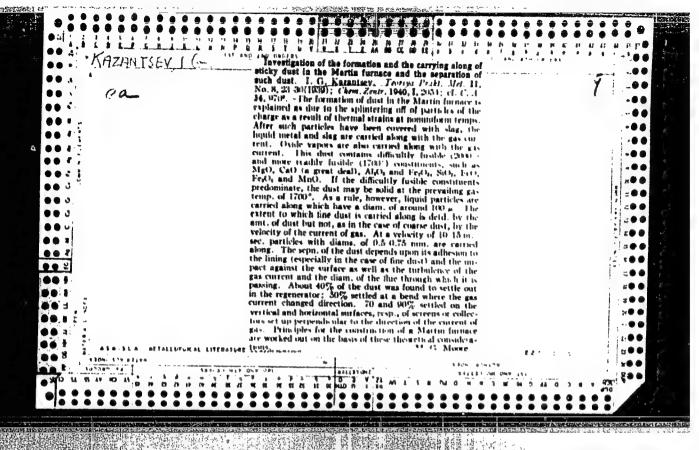
"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320013-2

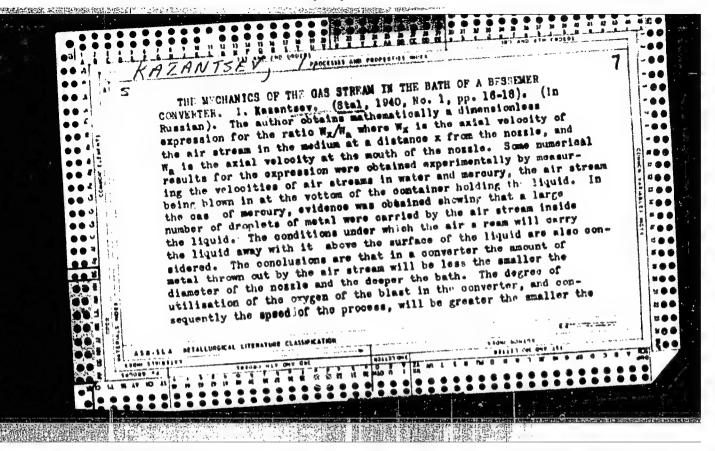


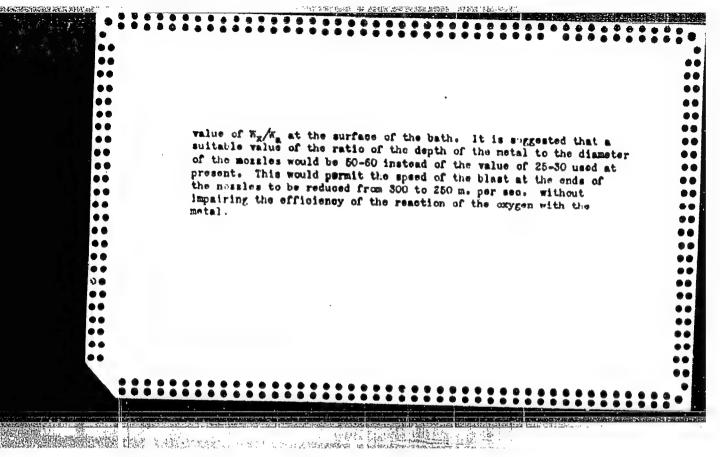




"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320013-2







SOV/137-58-9-18587

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 9, p 59 (USSR)

AUTHORS: Kazantsev, I.G., Kuznetsov, A.F.

TITLE:

Open-hearth Furnaces of the "Azovstal" Plant Operate on a Coke Oven-gas Mixture With Refined Gases or Gases Contaminated With Sulfur (Rabota martenovskikh pechey zavoda "Azovstal'" na koksodomennoy smesi s neochishchennym i

ochishchennym ot sery koksovym gazom)

PERIODICAL: Sb. nauchn. tr. Zhdanovsk. metallurg. in-t, 1957, Nr 4,

ABSTRACT: The authors examine the effect of S contained in cast iron

and in the fuel material on the S content in the metal during smelting, as well as on the duration of the melting period. Graphs are shown which illustrate this relationship. It is pointed out that the S is introduced into the fuel by the coke gas (CG) which contains up to 20 g of S per cubic meter. Calculations are presented which take into account the fact that 50% of the S from the fuel are deposited in the checker work, a cer-

tain amount of the S from the fuel being oxidized to SO2, and demonstrate that the gaseous phase of the open-hearth furnace

Card 1/2

SOV/137-58-9-18587

Open-hearth Furnaces of the "Azovstal' " Plant (cont.)

contains 0.25% of SO₂ by volume if the furnace operates on sulfur-bearing coke-oven gas, and 0.12% if the furnace operates on a refined and preheated gas mixture. The refining of the CG is accomplished by the arsenic-soda method in special sulfur-collecting devices capable of reducing the S content of the CG from 20 to 3.5 g/m³. A sulfur balance for smelting of steel in open-hearth furnaces of the "Azovstal" plant is shown. It reveals that the S passes from slag into the gas at a rate of 0.12 kg/m² hr in the case of unrefined CG and 0.24 kg/m²hr in the case of refined gas. The employment of the method of desulfurization of CG makes it possible to utilize slags with lower alkalinity for processing of cast iron containing up to 0.1% of S in open-hearth furnaces without impairing the quality of the process.

M.Kh.

1. Open hearth furnaces--Operation 2. Fuels--Performance 3. Sulfur--Effectiveness 4. Coal gas--Properties

Card 2/2

DANIKHBLKA, A., doktor, inzh.; MIKHAYLOV, O.A., kand. tekhn. nauk;

GONCHARENKO, M.I.; KLIMASENEO, L.S.; OYKS, G.M., prof., doktor
tekhn. nauk; SEMENENEO, P.P.; MOROZOV, A.M., prof., doktor tekhn.
nauk; GLINKOV, M.A., prof., doktor tekhn. nauk; KAZANTSEV, I.G.,
prof., doktor tekhn. nauk; KOCHO, V.S., prof., doktor tekhn. nauk;
ENEKESH, Sh., kand. tekhn. nauk; MOROZENSKIY, L.I., kand. tekhn.
nauk; GURSKIY, G.V.; SPERANSKIY, V.G.; HOVIK, L.M., kand. tekhn.
nauk, starshiy nauchnyy sotrudnik; SHNEYEROV, Ya.A., kand. tekhn.
nauk; PAPUSH, A.G., kand. tekhr. nauk; MAZOV, V.F.; SAMARIN, A.M.

Discussions. Biul. TSNIICHM no.18/19:17-35 157. (MIRA 11:4)

1. Glavnyy staleplavil'shchik Ministerstva metallurgicheskoy promyshlennosti i rudnikov Chekhoslovatskoy respubliki (for Danikhelka). 2. Direktor TSentral nogo instituta informatsii chernoy metallurgii (for Mikhaylov). 3. Direktor Ukrainskogo instituta metallow (for Goncharenko). 4. Glavnyy staleplavil shchik Kuznetskogo metallurgicheskogo kombinata (for Klimasenko). 5. Zaveduyushchiy kafedroy metallurgii stali Moskovskogo instituta stali (for Oyks). 6. Zamestitel' glavnogo inshenera zavoda im. Serova (for Semenenko). 7. Zaveduyushchiy kafedroy metallurgii stali Chelyabinskogo politekhnicheskogo instituta (for Morozov). 8. Zaveduyushchiy kafedroy metallurgicheskikh pechey Moskovskogo instituta stali (for Glinkov). 9. Zaveduyushchiy kafedroy metallurgii stali Zhdanovskogo metallurgicheskogo instituta (for Kazantsev). 10. Zaveduyushchiy kafedroy metallurgii stali Kiyevskogo politekhnicheskogo instituta (for Kocho). (Continued on next card)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721320013-2"

DANIEHELKA, A .-- (continued) Card 2.

11. Machal'nik tekhnicheskoge otdela Ministerstva chernoy metalurgii Vengerskoy Narodney Respubliki (for Enekesh). 12. Zamestitel' direktora Novetul'skogo metallurgicheskogo savoda (for Gurskiy). 13. Nachal'rik tekhnicheskogo otdela savoda "Dneprospetastal' (for Speranskiy). 14. Institut metallurgii im. Baykova AN SSSR (for Novik). 15. Nachal'rik staleplavil'noy laboratorii Ukrainekogo instituta metallov (for Saneyerov). 16. Nachal'nik laboratorii po nepreryvnoy razlivke stali Zhdanovskogo filiala TSentral'nogo nauchne-issledovatel'skogo instituta Ministerstva stroitel'noy promyshlennosti (for Papush). 17. Nachal'nik martenovskogo tsekha savoda "Zaporozhstal'" (for Mazov). 18. Zemestitel' direktora Instituta metallurgii im. Baykova AN SSSR, chlenkorrespondent AN SSSR (for Samarin).

(Steel-Motallurgy)

Leporskiy, V.V., Petrov, S.S. and Presnyakov, V.M., Engineers, Kazantsev, I.G., Professor AUTHORS:

Mass Production of Semi-killed Steel for Manufacturing Mine Supports (Masseveye proizvodstvo poluspokoynoy stali TITLE:

dlya shakhtnogo krepleniya)

PERIODICAL: Stal', 1958; Nr 8, pp 702 - 706 + 1 plate (USSR)

ABSTRACT: Experience gained in the large-scale production of semikilled steel for rolling profiles for the manufacture of

mine supports is discussed. For a long time, a killed steel. St5, was smelted for the purpose (GOST 380-50). In order to increase the yeld of rolled products in 1955, the above steel was replaced by a semi-killed steel of the following composition: C 0.28-0.37%, Si - traces, the following composition: C 0.50. Smelting of the steel Mn 0.70-1.10%, S < 0.055, P < 0.050. Smelting of the steel was carried out in 350-ton open-hearth furnaces with basic

roofs fired with a mixture of coke-oven and blast-furnace The proportion of hot metal 70-75%. Oxygen

additions to flame and to the bath were used during smelting. The deoxidation of metal is done in the furnace with 3.5 - 4.0 t of blast-furnace ferromanganese so as to obtain 0.8-1.0% of manganese in the finished metal.

Final deoxidation is done in the ladle with an average of

Cardl/3

SOV/133-58-8-7/30
Mass Production of Semi-killed Steel for Manufacturing Mine Supports

The total duration of the heat 11 -13 hours. Changes in the composition of metal and slag in 20 g/t of aluminium. the course of the heat are shown in rigure 1. Steel is bottom-poured in 7-ton ingots. Rolling of ingots is carried out in the same way as for rimming steel. Crop heads do not exceed 5%. The influence of carbon and manganese content on the mechanical properties of steel was investigated by the statistical analysis of data for 518 heats. The results are shown in Table 2 and Figure 2. Conclusions: 1) the possibility of replacing St5 steel by semi-killed steel not containing silicon but sout 1% of manganese was established. 2) Smelting and teeming of this steel is simple and similar to that of rimming steel. 3) The most economical method of deoxidation of the steel is by an addition of blast-furnace ferrosilicon to the furnace and partially into the ladle with an addition to the ladle of aluminium (30 g/t). Ferrosilicon is not used. 4) Heating and rolling conditions for the steel are the same as for rimming steel. 5) By replacing killed steel by the semi-killed steel, the coefficient of the consumption of metal decreased from 1.257 to 1.146,

Card2/3

SCV/133-58-8-7/30 Mass Production of Semi-killed Steel for Manufacturing Mine Supports

equivalent to the economy of 111 kg/t of ingots. 6) The quality of the surface of ingots, blooms and finished products from semi-killed steel is quite satisfactory. 7) Mechanical properties of mine supports correspond to requirements of standards for killed steel, St5 (GOST 380-50). There are 2 tables, 2 figures and 4 references, 2 of which are Soviet and 2 English.

ASSOCIATIONS:

Zavod "Azovstal" ("Azovstal" Works) and Zhdanovskiy metallurgicheskiy institut (Zhdanov Metallurgical Institute)

1. Steel--Production 2. Steel--Applications 3. Under-

Card3/3 ground structures--Materials

s/137/62/000/002/073/14 A006/A101

AUTHORS:

Kazantsev, I. G., Privezentsev, I. Ya.

TITLE:

Investigating the corrosion resistance of chromous and chrome-

aluminum steels in the presence of hydrogen sulfide

PERIODICAL:

Referativnyy zhurnal, Metallurgiya, no. 2, 1962, 33, abstract 2I195 ("Sb. nauchn. tr. Zhdanovsk. metallurg. in-t", 1960, no. 5, 257 -

261)

For operation under conditions of coke-chemical plants, Cr-steels, containing 7 - 12% Cr, are the most corrosion resistant.

T. Rumyantseva

[Abstracter's note: Complete translation]

Card 1/1

S/133/61/000/004/008/015 A054/A127

AUTHORS: Kazantsev, I. G., Professor; Lukashov, G. G., Engineer; Eul'skiy, M. T., Engineer; Tarasova, L. P., Engineer, and

Sapelkin, N. F., Engineer

TITLE: The most important properties of arsenic containing MCT. 3 KT

(MSt.3 kp) type rimming steel

PERIODICAL: Stal' no. 4, 1961, 346 - 350

TEXT: Steel beams, channels, hinges and sheets used in the building industry must come up to the following requirements of FOCT (GOST) 380-50: 6B = 38 kg/sq mm; 6S = 24 kg/sq mm; 610 = 25%. Since 1954 products for the building industry have been manufactured in the "Azovstal'" plant of MSt.3kp rimming steel with an arsenic content of 0.13% produced from Kerch' ore. The mechanical properties of the arsenic-containing steel of Azovstal' were tested together with three heats of non-arsenic containing MSt.3kp steel processed in the Yenakiyeo plant from Krivoyrog ores. The composition of the heats is given in Table 1. From the test castings no. 30 channels, 2 meters in length were produced (from the top, medium and bottom part of

Card 1/6-4

S/133/61/000/004/008/015 A054/A127

The most important properties of ...

the ingot) Samples were made from the steel channels to test the tensile strength, notch toughness as well as to carry out endurance and brittle fracture tests. The tensile strength values (Table 2) show that for a practically identical composition the arsenic-containing steel displays 2 - 4% higher values than arsenic-free steel, whereas both types have the same values for relative elongation. For notch toughness with Menazhe (Menager) type samples - 45 longitudinal and 45 transversal from each heat - the following average values were obtained:

| Test-temperature, °C As-containing | +20 | 0 | -20 | -40 | -60 |
|--|-------------|-------------|------------|--------------|--------------|
| longitudinal samples transversal " As-free | 14.0 8.4 | 10.8 6.7 | 8.6 5.4 | 3.7 3.0 | 0.30 |
| longitudinal samples transversal " | 12.3 7.6 | 9•4 4•9 | 5.8 3.6 | 0.80 0.68 | 0.30 0.28 |

Thus, notch toughness is higher for arsenic containing steels at each temperature tested. For endurance tests special samples were made. Sheets 11.5 mm thick were cut from the no. 30 channels of both kinds of steel and

Card 2/6 4

S/133/61/000/004/008/015 A054/A127

The most important properties of ...

polished on magnetic sheet to 10 mm ± 0.02 mm. Next arsenic containing and non-containing sheets were welded together (Fig. 1). In this way the two different steel types could be tested simultaneously and under exactly identical conditions. 288 welded samples were tested in all: 72 longitudinal samples, polished on 3 sides, 72 of the same kind, but polished on 4 sides, while from arsenic non-containing steel the same number of samples in the same assortment were investigated. It was found that under symmetrical oscillating bending load, with a stress in the external fibers of the material between 13.4 and 8.5 kg/sq mm (measured at every 0.7 kg/sq mm) most fractures occurred in non-arsenic samples (169 of 240 or 70%). The limit of endurance in arsenic-containing and non-containing steel samples established under symmetrical oscillating bending load with a number of cycles of 107, from 19 to 20 kg/sq mm decreases in the proximity of the welding seams with a bead, to 8.5 - 9.2 kg/sq mm. The tests proved that samples containing arsenic display a greater bending resistance than arsenic-free steels and are thus more suitable for welded building constructions than the latter. Tests on brittle fracturing of both types of steel were carried out at +20, -20 and -60°C on samples as given in Figure 4 and consisting of 50% As-containing and 50% As-free steel. 78% of the fractures occurred in non-arsenic

Card 3/6 4

The most important properties of

S/133/61/000/004/008/015 A054/A127

steel samples. No brittle fracture could be observed in the proximity of the welding seam, in either kind of samples at low temperatures, proving that MSt.3kp steels are suitable for electrowelding. It was concluded that the MSt.3kp steel made of Kerchensk ore, with electrowelded seams and a 0.13% As content is superior to the same branch of steel not containing As, with regard to tensile strength, notch toughness, endurance and brittle fracture. There are 5 figures, 3 tables and 3 references: 2 Soviet-bloc and 1 non-Soviet-bloc.

ASSOCIATION: Zhdanovskiy metallurgicheskiy institut (Zhdanov Metallurgical Institute) and zavod "Azovstal'" (Azovstal' Plant).

Card 4/64